



## **AKB-1 Battery Pack**

**Operational manual for use with Photogenic AC/DC  
StudioMax II & III & PerforMax monolights.**

This DC power supply is primarily designed for use with  
AC/DC monolights from Photogenic Professional Lighting.

**AKC320B & AK320B  
320 watt second model.**

**AKC160B & AK160B  
160 watt second model.**

**AK4001MLB  
150 watt second model.**

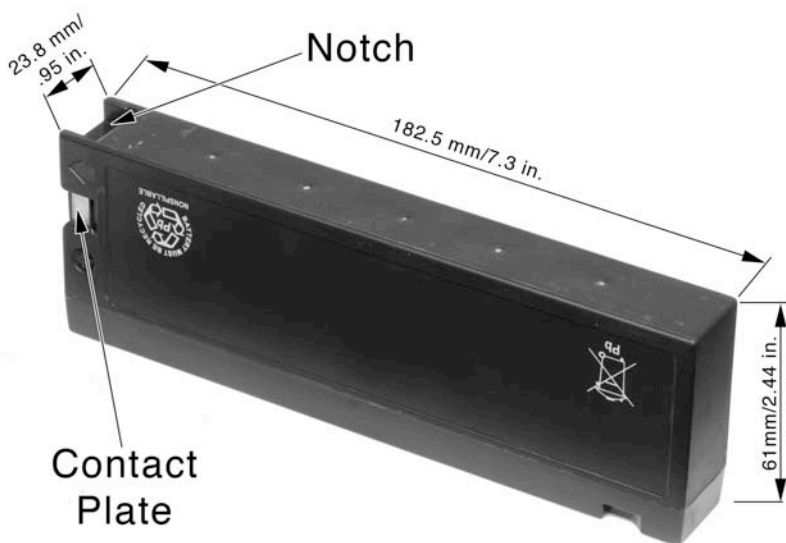
**Photogenic Professional Lighting**  
1268 Humbracht Circle  
Bartlett, Illinois 60103-1631  
[www.photogenicpro.com](http://www.photogenicpro.com)

**Included in the AKB-1 package:**

- 1 - DC 12V, 2.3Ah lead-acid battery with output of 305VDC, 500mA.
  - 1 - Battery case/charger housing.
  - 1 - Soft case with belt clip for protection of the unit.
  - 1 - Soft case shoulder strap.
  - 1 - Wall adapter 18V, 600mA.
- (The battery-to-light cable is supplied with the monolights)

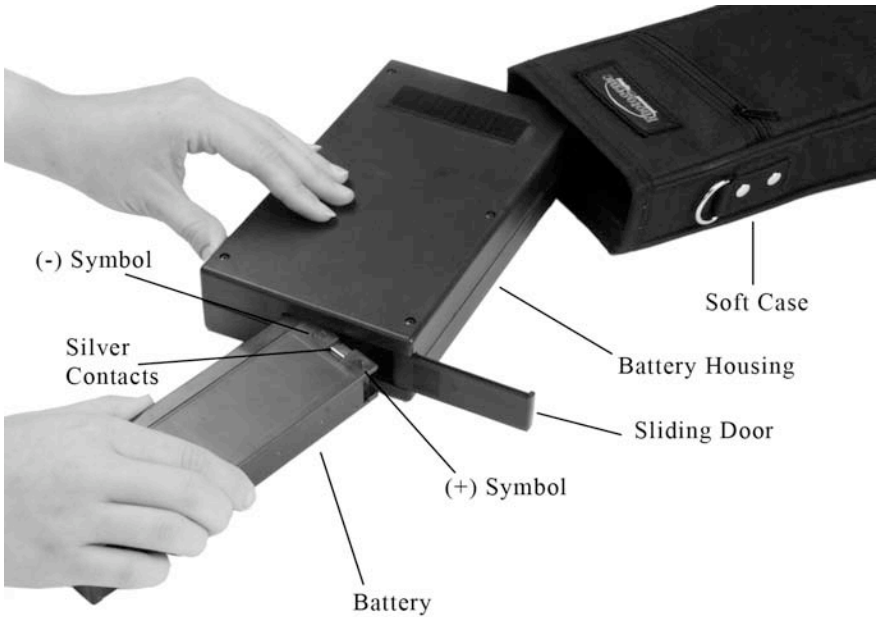
**Basic features.**

The battery pack is designed to accommodate a DC 12V, 2.3Ah lead-acid battery with the following dimensions.

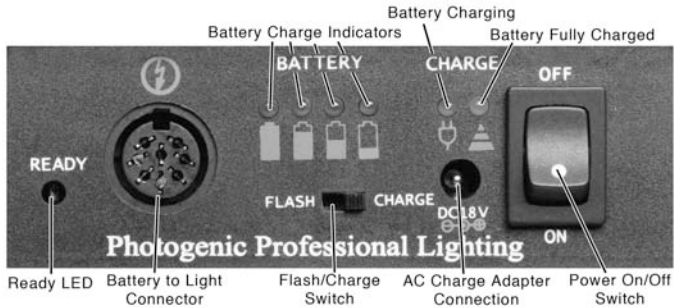


## **Installation of the battery.**

The battery may not be installed in the unit when it arrives. To install the battery, remove the protective padded case around the unit. There is a Velcro strip between the padded case and the unit housing. Separate the Velcro strips and the housing can be removed. At the opposite end from the display panel, there is a sliding door that must be opened exposing a channel compartment for the battery. The battery must be placed into the channel with the silver contacts toward the opened door. Push the battery into the channel until you feel resistance and the door can be closed. Place the housing back into the soft case for protection.



## Control Panel Layout.



## Charging the battery.

The battery pack becomes the charger when you connect the AC/DC wall adapter included in the package.

**Before using the battery for the first time, it must be charged for a minimum of three hours.**

### Charging Procedures.

1. Turn the main On/Off switch to the **ON** position.
2. Plug the adapter into the battery and then into the wall.
3. Turn the Flash/Charge switch to **CHARGE**.
  - a. The red charge indicator light will turn on indicating the charging circuit is working.
  - b. The green charging light will turn on indicating energy is being replaced in the battery cells. You may notice the pack becomes warm during this process, this is normal.
4. When the pack is fully charged, the green charging light will begin to blink (instead of remaining constant) which indicates the charging cycle is complete.
5. Disconnect the charging adapter and move the flash/charge switch to **FLASH**.

There are three green and one red battery power indication lamps on the control panel. When you turn the battery switch on after a full charge, all three green LED lamps should be illuminated. As you use the stored battery power fewer green lights will be lit until you have drained the battery at which time the red indicator lamp will come on and the battery should then be recharged.

Your new fully charged power pack will provide between 100 to 200 full charge flashes depending on the model you have. This is an approximation for full power flashes and dialing down power can increase the number of charges you will have for your light. Carry a backup battery when you are in the field for extended periods of time, or do not have access to power.

**Note: When you are using the light in battery mode, the modeling circuit is disabled to prevent incidental draining of battery power.** Using the lights in AC mode, the modeling circuits are fully functional.

### **Connecting to your Light.**

1. Make sure both the battery and the light are switched to the **OFF** position.
2. Connect the battery-to-light cable to the light and then to the battery.
3. Move the flash/charge switch on the battery to **FLASH**.
4. Move the power switch on the light from OFF to **Flash**. *(If your flash unit has a modeling light, be sure it is off, or the battery will not charge the flash.)*
5. After the light switch is moved to flash, turn the battery power switch to **ON**. Your battery is now charging the light unit. The ready light on the back of the light will indicate when it has been charged to the selected power level. The ready light on the battery will begin to blink as an indication that the light has been charged. This LED will continue to blink until the light is discharged. It is recommended that you turn the battery to off to conserve energy if the light is not in use.

### **Maintaining your battery.**

- ❑ It is a good practice to periodically recharge your battery to maintain the pack in the best condition. We recommend every two weeks even if you do not plan to use the pack within this interval.
- ❑ Give your battery pack a rest after 15 to 30 minutes of use. The pack will generate heat during the recharge cycles and this rest will allow the pack to cool and lengthen its useful life.

- ❑ Do not leave the unit in a hot humid environment or in direct sunlight for extended periods.
- ❑ Use only charger/adapters with the specified limits.
- ❑ Do not drop the unit.
- ❑ Do not use in the water, submerged, mist or rain water.
- ❑ Do not attempt to disassemble or repair the unit.
- ❑ Do not touch the flash socket or the end of the cable of the monolight. Always plug the cable into the light first and then plug the cable into the battery pack.

## **Specifications.**

Charge Input Requirement	DC18V, 600mA
Charger Input Socket	Round Coaxial type with center -ve and perimeter +ve
Output Voltage/Current	Approx. DC305V/500mA when a battery as specified is used
Battery to be Used	DC12V, 2.3Ah (at room temperature) lead-acid type dimensions and designs as indicated at Basic features.
Accompanying Accessory	Cord for connection to studio flash
Physical Dimensions	8.8 in./220 mm (L) x 4.4 in./110mm (W) x 1.88 in./47mm (H)
Weight	Approx. 3 pounds Net